Owens Corning Canada LP - Guelph Glass Plant **Toxics Reduction Public Summary Report Facility Information** Owens Corning Composite Materials Canada LP Company Name Facility Name Guelph Glass Plant Facility Physical Address 247 York Road, Guelph, ON, N1H 6P6 Facility Mailing Address Same as physical address Spatial Coordinates of Facility 562054 Easting; 4821622 Northing Number of Employees 50 NPRI ID 3287 2 Digit NAICS Code 32 4 Digit NAICS Code 3272 6 Digit NAICS Code 327214 Parent Company Information Parent Company Name OC Canada Holding Company Address 3450 McNicoll Ave, Scarborough, Ontario, CANADA, M1V 1Z5 Percent Ownership (if available) 99.99% Parent Company Information Parent Company Name Owens Corning Composite Materials Canada GP Inc. Address 900-400 St. Mary Avenue, Winnipeg, Manitoba, CANADA, R3C 4K5 Percent Ownership (if available) 0.01% Facility Contact Public Contact Rob Nixon Plant Manager Position Address 247 York Street, Guelph, ON, CANADA, N1E 3G4 Robert.D.Nixon@owenscorning.com email Phone 519-823-7219 519-823-7204 Fax **Date of Summary** Reporting Year 2018 Summary Date June 1, 2019 **Toxics Substances Reported** Chromium, PM10, PM2.5, Nitrogen Oxides Copy of Certification: As of June 1, 2019, I certify that I have read the report on the toxic substance reduction plan(s) for the toxics listed above and am familiar with their contents and to my knowledge the information contained in the report(s) is factually accurate and complies with the Toxics Reduction Act. 2009 and Ontario Regulation 455/09 (General) made under that Act. The original version of this report is signed off by:

30-May-19

Dated

Highest Ranking Employee: Rob Nixon

Robert of

Title: Plant Leader

Signed

| Sut CA: Rep Pla Pla Toxics Substar Pati | bstance Name S # port Date: an Date: an Objectives and Targets nce Accounting and Comparison thways its reported | Chromium Compou CAS # NA-04 June 1, 2019 20-Dec-12 Owens Corning Corommitted to playin Corning does not in success of previous will eliminate, or rec compliance with all | • | anada LP - Guelph C n protecting the envi ce the use of chromit uction efforts. Whene on and discharge of c cial Regulations. | ironment. Owens um because of the ever feasible, we chromium in full Delta % | |
|---|---|---|---|--|---|--|
| Sut CA: Rep Pla Pla Toxics Substar Pati | bstance Name S # port Date: an Date: an Objectives and Targets nce Accounting and Comparison thways its reported | Chromium Compou CAS # NA-04 June 1, 2019 20-Dec-12 Owens Corning Cor committed to playin Corning does not in success of previous will eliminate, or rec compliance with all | mposite Materials Cag a leadership role in tend to further reducesly implemented reduce the use, creation Federal and Province 2018 tonnes | anada LP - Guelph C n protecting the envi ce the use of chromit uction efforts. Whene on and discharge of c cial Regulations. | ironment. Owens um because of the ever feasible, we chromium in full Delta % | |
| Sut CA: Rep Pla Pla Foxics Substar Pati | bstance Name S # port Date: an Date: an Objectives and Targets ance Accounting and Comparison thways its reported | CAS # NA-04 June 1, 2019 20-Dec-12 Owens Corning Corcommitted to playin Corning does not in success of previous will eliminate, or recompliance with all | mposite Materials Ca ng a leadership role in intend to further reduc- sly implemented reduce duce the use, creation Federal and Province | anada LP - Guelph C n protecting the envi ce the use of chromit uction efforts. Whene on and discharge of c cial Regulations. | ironment. Owens um because of the ever feasible, we chromium in full Delta % | |
| CA: Rep Pla Pla Toxics Substar Pati | nce Accounting and Comparison thways its reported | CAS # NA-04 June 1, 2019 20-Dec-12 Owens Corning Corcommitted to playin Corning does not in success of previous will eliminate, or recompliance with all | mposite Materials Ca ng a leadership role in intend to further reduc- sly implemented reduce duce the use, creation Federal and Province | anada LP - Guelph C n protecting the envi ce the use of chromit uction efforts. Whene on and discharge of c cial Regulations. | ironment. Owens um because of the ever feasible, we chromium in full Delta % | |
| Rep Pla Pla Toxics Substar Pati | port Date: an Date: an Objectives and Targets nce Accounting and Comparison thways its reported | June 1, 2019 20-Dec-12 Owens Corning Coromitted to playin Corning does not in success of previous will eliminate, or recompliance with all | g a leadership role in the tend to further reduce sly implemented reduce duce the use, creation Federal and Province 2018 tonnes | n protecting the envi ce the use of chromic uction efforts. Whene on and discharge of c cial Regulations. | ironment. Owens um because of the ever feasible, we chromium in full Delta % | |
| Pla Pla Pla Toxics Substar Pati | an Date: an Objectives and Targets an Comparison thways its reported | 20-Dec-12 Owens Corning Corommitted to playin Corning does not in success of previous will eliminate, or recompliance with all 2017 tonnes | g a leadership role in the tend to further reduce sly implemented reduce duce the use, creation Federal and Province 2018 tonnes | n protecting the envi ce the use of chromic uction efforts. Whene on and discharge of c cial Regulations. | ironment. Owens um because of the ever feasible, we chromium in full Delta % | |
| Pla Toxics Substar Pati | nn Objectives and Targets nce Accounting and Comparison thways its reported | Owens Corning Corcommitted to playin Corning does not in success of previous will eliminate, or recompliance with all | g a leadership role in the tend to further reduce sly implemented reduce duce the use, creation Federal and Province | n protecting the envi ce the use of chromic uction efforts. Whene on and discharge of c cial Regulations. | ironment. Owens um because of the ever feasible, we chromium in full Delta % | |
| Toxics Substar Pati | nce Accounting and Comparison thways its reported | committed to playin Corning does not in success of previous will eliminate, or rec compliance with all 2017 tonnes | g a leadership role in the tend to further reduce sly implemented reduce duce the use, creation Federal and Province | n protecting the envi ce the use of chromic uction efforts. Whene on and discharge of c cial Regulations. | ironment. Owens um because of the ever feasible, we chromium in full Delta % | |
| Pat | thways its reported | tonnes | tonnes | _ ,,,, | | |
| | its reported | tonnes | tonnes | _ ,,,, | | |
| Linit | | | | 204-4 | | |
| | | | >1 to 10 | | | |
| | Enters the Process (Raw Materials) | >1 to 10 | | >0 to -1 | -6% | |
| | Created | 0 | 0 | 0 | NA | |
| P - I | In a product that leaves the process | >1 to 10 | >1 to 10 | >0 to -1 | -5% | |
| curi | rrent year and previous year. | No significant change | | | | |
| be | n-site releases from the facility to air, wat viewed by searching for this facility at hi plementing Plan | | | | site recycling ca | |
| Sur | mmary of steps taken during the previous caplement the plan and a summary of the toxion hieved as a result of the steps taken. | | Not Applicable | | | |
| cale | mmary of additional actions taken during the lendar year that impacted the toxic, and a su eps and toxics reductions achieved as a resu | ummary of the | Not Applicable | | | |
| | mmary of differences between steps taken a | | | | | |
| Des | scription of amendments to the plan. | | Not Applicable | | | |

| 1 | Owens Corning | Canada LP - Gเ | ıelph Glass Pla | nt | |
|----------|--|---|---|----------|-------------------|
| | Toxics Redu | uction Public Sun | nmary Report | | |
| Substa | nce Information and Plan Objective | | | | |
| | Substance Name PM10 - PARTICULATE MATTER <=10MICRONS | | | | |
| | CAS# | N/A - M09 | | | |
| l | Report Date: | June 1, 2019 | | | |
| l | Plan Date: | 18-Dec-13 | | | |
| | Plan Objectives and Targets | Owens Corning Composite Materials Canada LP - Guelph Glass Plant is committed to playing a leadership role in protecting the environment. Whenever feasible, we will eliminate, or reduce the creation and dischar PM10 in full compliance with all Federal and Provincial Regulations. | | | |
| Toxics | Substance Accounting and Comparison | <u> </u> | | | |
| İ | Pathways | 2017 | 2018 | Delta | Delta % |
| | Units reported | tonnes | tonnes | | |
| | U - Enters the Process (Raw Materials) | 0 | 0 | 0 | NA |
| İ | C - Created P - In a product that leaves the process | >1 to 10 | >1 to 10 | >0 to -1 | 0% NA |
| | Summary of reasons for changes between | no significant chang | | | |
| Progress | Current year and previous year. On-site releases from the facility to air, we be viewed by searching for this facility at | ater and land, as we | ell as on and off-sit | | site recycling ca |
| Progres | On-site releases from the facility to air, w | ater and land, as we http://www.ec.gc.ca | ell as on and off-sit | | site recycling ca |
| Progres | On-site releases from the facility to air, we be viewed by searching for this facility at ss in Implementing Plan Summary of steps taken during the previous implement the plan and a summary of the tox | ater and land, as we http://www.ec.gc.ca calendar year to kics reductions he previous summary of the | ell as on and off-sit /inrp-npri/default.a | | site recycling ca |
| Progres | On-site releases from the facility to air, we be viewed by searching for this facility at ss in Implementing Plan Summary of steps taken during the previous implement the plan and a summary of the toy achieved as a result of the steps taken. Summary of additional actions taken during to calendar year that impacted the toxic, and a step in the step in | ater and land, as we http://www.ec.gc.ca calendar year to cics reductions he previous summary of the sult of those actions. | ell as on and off-sit /inrp-npri/default.a Not Applicable | | site recycling ca |

| 1 | Owens Corning | Canada LP - Gเ | ıelph Glass Pla | nt | | |
|---------|--|--|---|----------|--------------------|--|
| | Toxics Redu | ıction Public Sun | nmary Report | | | |
| Substa | nce Information and Plan Objective | | | | | |
| | Substance Name | | | | | |
| l | CAS# | N/A - M10 | | | | |
| l | Report Date: | June 1, 2019 | | | | |
| | Plan Date: | 18-Dec-13 | | | | |
| | Plan Objectives and Targets | committed to playin Whenever feasible, | ning Composite Materials Canada LP - Guelph Glass Plant is to playing a leadership role in protecting the environment. feasible, we will eliminate, or reduce the creation and discharg Il compliance with all Federal and Provincial Regulations. | | | |
| Toxics | Substance Accounting and Comparison | | | | | |
| İ | Pathways | 2017 | 2018 | Delta | Delta % | |
| İ | Units reported | tonnes | tonnes | | | |
| İ | U - Enters the Process (Raw Materials) | 0 | 0 | 0 | NA | |
| l | C - Created | >1 to 10 | >1 to 10 | >0 to -1 | 0% | |
| | P - In a product that leaves the process | 0 | 0 | 0 | NA | |
| | Summary of reasons for changes between | no significant change | | | | |
| | current year and previous year. | no significant chang | ge | | | |
| Progres | | ater and land, as we | ell as on and off-site | | -site recycling ca | |
| Progres | current year and previous year. On-site releases from the facility to air, was be viewed by searching for this facility at h | ater and land, as we http://www.ec.gc.ca | ell as on and off-site | | site recycling ca | |
| Progres | current year and previous year. On-site releases from the facility to air, was be viewed by searching for this facility at It is in Implementing Plan Summary of steps taken during the previous of implement the plan and a summary of the tox | ater and land, as we http://www.ec.gc.ca | ell as on and off-site /inrp-npri/default.as | | -site recycling ca | |
| Progres | current year and previous year. On-site releases from the facility to air, was be viewed by searching for this facility at his sin Implementing Plan Summary of steps taken during the previous of implement the plan and a summary of the tox achieved as a result of the steps taken. Summary of additional actions taken during the calendar year that impacted the toxic, and a step in the ste | calendar year to ics reductions ne previous summary of the sult of those actions. | ell as on and off-siton. Jinrp-npri/default.as Not Applicable | | -site recycling ca | |

| | Owens Corning | Canada LP - Gu | ıelph Glass Pla | nt | | |
|---------|---|---|--|---------------|--------------------|--|
| | Toxics Redu | ıction Public Sur | mmary Report | | | |
| Substa | nce Information and Plan Objective | | | | | |
| | Substance Name | Substance Name NITROGEN OXIDES (EXPRESSED AS NO2) | | | | |
| | CAS# | 10102-44-0 | | | | |
| l | Report Date: | June 1, 2019 | | | | |
| | Plan Date: | 18-Dec-13 | | | | |
| | Plan Objectives and Targets | committed to playir Whenever feasible | Composite Materials Canada LP - Guelph Glass Plant is ying a leadership role in protecting the environment. le, we will eliminate, or reduce the creation and dischargiance with all Federal and Provincial Regulations. | | | |
| Toxics | Substance Accounting and Comparison | | | | | |
| i | Pathways | 2017 | 2018 | Delta | Delta % | |
| | Units reported | tonnes | tonnes | | | |
| | U - Enters the Process (Raw Materials) | 0 | 0 | 0 | NA | |
| | C - Created | >10 to 100 | >10 to 100 | > -10 to -100 | -48% | |
| | P - In a product that leaves the process | 0 | 0 | 0 | NA | |
| | Summary of reasons for changes between | Emission estimate refinement | | | | |
| | current year and previous year. | Emission estimate | refinement | | | |
| Progres | , | ater and land, as we | ell as on and off-sit | | site recycling car | |
| Progres | Current year and previous year. On-site releases from the facility to air, was be viewed by searching for this facility at | ater and land, as we http://www.ec.gc.ca | ell as on and off-sit | | site recycling car | |
| Progres | current year and previous year. On-site releases from the facility to air, we be viewed by searching for this facility at as in Implementing Plan Summary of steps taken during the previous implement the plan and a summary of the tox | ater and land, as we http://www.ec.gc.ca | ell as on and off-sit /inrp-npri/default.a | | site recycling car | |
| Progres | current year and previous year. On-site releases from the facility to air, we be viewed by searching for this facility at sin Implementing Plan Summary of steps taken during the previous implement the plan and a summary of the tox achieved as a result of the steps taken. Summary of additional actions taken during the calendar year that impacted the toxic, and a step staken. | ater and land, as we http://www.ec.gc.ca calendar year to cics reductions he previous summary of the sult of those actions. | ell as on and off-sit /inrp-npri/default.a Not Applicable | | site recycling car | |